Approved For Release 2000/04/14 : CIA-RDP78-03735A000200030003-0

Comments

1. Wireless transmission of power has had to wait for the development of microwave technology.

2. Raytheon has announced development of a revolutionary high-power, high-frequency microwave tube called AMPLITRON which Raytheon claims finally makes possible the transmission of large quantities of electric power without wires. Raytheon also claims:

a) AMPLITRON converts electrical energy to microwave energy with efficiencies on the order of 70%

b) The AMPLITRON is efficiently cooled by a system "Breakthrough" in this field.

c) a + b above make it possible to build tubes with power levels 20-100 times greater than is now available. (data from Aug 1959.)

3. The transmission of electrical power into space will be much easier than transmitting over hills and dales ~~and to~~ ~~Approved For Release 2000/04/14 : CIA-RDP78-03735A000200030003-0~~ ~~of electricity to homes~~ fac-

Approved For Release 2000/04/14 : CIA-RDP78-03735A000200030003-0

separated from a normal electric power source. The transmission of electrical power from place to place on earth will be limited to short line-of-sight distances using huge antennas and high-power microwave generators pending a major breakthrough in the parallel-beam field involving the LASER MASER (RASER) theories.

[redacted]

STATINTL

Approved For Release 2000/04/14 : CIA-RDP78-03735A000200030003-0

Approved For Release 2000/04/14 : CIA-RDP78-03735A000200030003-0

July 15, 1960 issue

1 I Would like to know date of McGraw-Hill World News item.

2 What are the correct dates mentioned in this report? June 30, 1960
1985
1965
1957 (Turkish)

3 IF this system is to work, the field intensity throughout whole cities would have to be great to pick up kilowatts of power in areas like 1/20 of KWhr meters!

A lot of people and equipment makes them if this is the case.

The losses, circular currents and interference just to mention a few should cause some concern.

4 There are no facts in this report to support [illegible]

Approved For Release 2000/04/14 : CIA-RDP78-03735A000200030003-0

For Release 2000/04/14 : CIA-RDP78-03735A000200030003-

SENDER WILL CHECK CLASSIFICATION TOP AND BOTTOM

	UNCLASSIFIED		CONFIDENTIAL		SECRET

CENTRAL INTELLIGENCE AGENCY

OFFICIAL ROUTING SLIP

TO	NAME AND ADDRESS	INITIALS	DATE
1	[redacted]		
2			
3	STATINTL		
4			
5			
6			

	ACTION		DIRECT REPLY		PREPARE REPLY
	APPROVAL		DISPATCH		RECOMMENDATION
	COMMENT		FILE		RETURN
	CONCURRENCE	✓	INFORMATION		SIGNATURE

Remarks:

Hope this will help -

some -

STATINTL

[redacted]

STATINTL

FOLD HERE TO RETURN TO SENDER

FROM: NAME, ADDRESS AND PHONE NO.	DATE
[redacted]	17 Oct

	UNCLASSIFIED		CONFIDENTIAL		SECRET

For Release 2000/04/14 : CIA-RDP78-03735A000200030003-

☆ U. S. GOVERNMENT PRINTING OFFICE : 1955—O-342531